



Town Of Cromwell
Department of Public Works
Nathaniel White Building
41 West Street
Cromwell, CT 06416

Phone: 860-632-3465
Fax: 860-632-3477
Email: jharriman@cromwellct.com

ADDENDUM

Bid: RFP

Addendum No. 2

Issued: November 6, 2018

Submission Date and Time: November 19, 2018 no later than 10:00 AM

Title: Design-Build Services Department of Public Works/Cromwell Water Pollution Control
Authority Facility

Bidders Note

This addendum is issued to provide all bidders with the following:

- a. Responses to the Requests for Information

All other terms and conditions remain the same.



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Title: Design-Build Services Department of Public Works/Cromwell Water Pollution Control Authority Facility

Responses to Requests for Information

Question 1: Please advise if any compressed air distribution shall be included in our scope of work. If so, please clarify locations to be served. Further, please clarify if a compressor or any other equipment should be included

Response 1: There will be two air compressor setups. One setup for the maintenance garage and one for the highway/sewer garage.

Question 2: Please advise if any fluid delivery system should be included in the submission. If so, please clarify locations to be served.

Response 2: The existing fluid delivery system in the existing mechanics garage will be reused in the new mechanics garage. The existing system is four pumps – diesel engine oil, gasoline engine oil, transmission fluid and hydraulic oil.

Question 3: Please advise if any existing equipment is intended to be relocated and/or installed by Owner, therefore requiring our design to include appropriate rough-in provisions (e.g. Vehicle lifts, welders, tire changers, balancer etc.). If so, please provide desired locations, power requirements, etc.

Response 3: Vehicle lifts and bridge crane are discussed in questions 24 and 25. Welders are used in sewers, highway and vehicle maintenance. These are roll out systems – single phase, 220 or 240 volt. Tire changer and balancer also to be reused most likely on left wall of vehicle maintenance – single phase, 220 or 240 volt. Multiple 220 volt plug locations inside the highway/sewer garage wall common with the rest of the facility would be needed.

Question 4: RFP states that generator shall be provided for on-demand backup power suitable for office and garage spaces. Please clarify which items, are required to be provided for standby backup:

- a. Office – Lighting and Power Outlets
- b. Overhead Coiling Doors for Vehicles
- c. Server for Tele/Data and Network Switches
- d. Heating
- e. Cooling
- f. Vehicle Storage Garage Ventilation



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- g. Mechanic's Ventilation
- h. Security systems

Response 4: The emergency generator should power the entire facility, to match what the Town currently has in the existing facility.

Question 5: The Salt Shed - The steel and fabric structure is mounted to concrete blocks on the two sides, At the back there is concrete blocks 4 rows high and also in the front entrance there are wing walls of these concrete blocks. Are these concrete blocks to be relocated also? Or can a concrete wall 6' above finished grade on three sides with footings be used and the blocks remain at the present site

Response 6: It is assumed that the concrete blocks are reusable and would be relocated. Proposers should disclose any proposed alternates in their submission.

Question 7: The Salt Shed - What would be the treatment of the back wall?

Response 7: Same as existing.

Question 8: The Salt Shed - The on grade floor, what would Town want for the construction, i.e. a 6" concrete slab on grade or a bituminous pavement structure

Response 8: Replace like existing which is 3" bituminous concrete.

Question 9: The Salt Shed - Is a filter fabric layer under the slab required along with a floor drain piped to a sand/ debris structure

Response 9: Salt shed will require a pitched floor to a drain tied to sewer to match existing condition and any applicable related codes.

Question 10: Transfer Station site-The existing condition of the site elevations and contours with the stockpiles, is there a drawing that reflects these conditions

Response 11: A recent aerial topo CAD file is available. Call or email the Town Engineer to receive a copy.

Question 11: Transfer Station site- Will the town relocated these stock piles of materials?

Response 11: The Town envisioned making use of this material in the proposed grading plan for the site. If a proposer needs the material removed, please provide a price to do so for the Town to evaluate.

Question 12: Fleet vehicle and mechanic garages- A vehicle exhaust system required?

Response 12: The new facility should have an exhaust system to meet current code requirements. (New system).

Question 13: Please review and advise if there are any mezzanines or elevated platforms within the "Town's Modified Preferred Scheme"?



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Response 13: None as shown. If a proposer feels that there are cost savings in doing so, please disclose in submission.

Question 14: Are any flow test results available for public water in County Line Road?

Response 14: Recent flow tests performed for the development of 120 County Line Drive are attached.

Question 15: Please review and advise if natural gas is available at the proposed new location

Response 15: Natural gas is available and currently feeds the transfer station office trailer.

Question 16: What fluids are intended to be stored within the Fluid Storage Area adjacent to the Mechanic's Garage?

Response 16: Fluid storage would include lubricating oils/fluids, grease, antifreeze, degreasers, cleaning solvents, windshield washing fluids, etc.

Question 17: In the Town's Modified Preferred Scheme, there appears to be a work-surface wrapping two walls of the Mechanic's Garage. Please clarify what is required at this location.

Response 17: This should approximately match what the mechanics have in their existing facility. Bench top work surface with storage shelves underneath.

Question 18: The RFP references a requirement for a 4'-0" frost wall within the Heavy Equipment Storage Building. Please clarify if the intent is to provide a solid concrete wall 4'-0" above grade.

Response 18: Yes, 4'-0" above grade.

Question 19: Will the Town be providing the geotechnical borings/data? The Geotech report is critical for the basis of foundation design this could vary significantly

Response 19: A geotechnical report is not currently available. Proposers should carry the costs of conducting their own investigation in their proposal fee. Make the assumption that the bearing capacity of the existing soils is sufficient for a standard footing/foundation. If a geotechnical report does not confirm this, and a specialized more costly footing/foundation is required a change order would be entertained.

Question 20: The age of the tenting material on the salt shed. Can you provide the original engineered drawings?

Response 20: See information attached to this addendum. The tenting material is sixteen years into a twenty+ year life expectancy, as such replacement of the fabric with the same or equal fabric tenting shall be a part of this contract. Also in the attachment are design drawings and contact information for the manufacturer and persons familiar with relocation of same.

Question 21: Are you anticipating any covered storage areas for small equipment or material?

Response 21: With the angled stalls in the garage the Town will make use of storage along the two long walls of the new garage. The attached carport/equipment shelter will store some vehicles outside.



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Question 22: Are the Three Walled offices for single occupancy or multiple person occupancy?

Response 22: The three walled offices will each be 2-person occupancy.

Question 23: How many showers are expected in the locker rooms?

Response 23: The architect's rendering showed 2 male and 1 female shower. The Town wishes to meet code compliance on this issue.

Question 24: Are you expecting a bridge crane in the heavy equipment storage building or mechanic's area?

Response 24: The existing bridge crane would be relocated to the new mechanic's garage – this crane was installed by Atlantic Ventilating in Cromwell and spans the two existing garage bays.

Question 25: Is the town going to use mobile lifts or should we anticipate fixed post lifts?

Response 25: The Town currently uses a mixture of portable and fixed lifts. For the new garage assume two bays will relocate the two fixed lifts and two will make use of portable lifts. (No new equipment purchases for this contract). The bridge crane will be over the two portable lift bays.

Question 26: Will the fuel management system be a part of our scope? If so, what is the system the town currently uses?

Response 26: The Town currently uses Fuel Force for the existing fuel management system – the current system is a dial-up web based system – the Town wishes to replicate this system at the new facility. The contact at Fuel Force is Bob Cochollola 800-257-9512.

Question 27: Please provide a Finish Floor elevation so quantities of site material can be quantified

Response 27: A grading plan and finished floor elevation have not been completed as a part of the conceptual layout. The proposer can make use of the existing fill piles in the completion of the site grading.

Question 28: Is this project subject to prevailing wage, if so please provide the wage rates

Response 28: This RFP will be re-bid on the 15th of November with prevailing wage rates opening on the 3rd of December – essentially extending the bid two weeks.

Hodge, Michelle

From: Harriman, Jon
Sent: Wednesday, November 07, 2018 8:54 AM
To: Hodge, Michelle
Subject: FW: Sprung Information
Attachments: F021168.pdf

This email and attached pdf should be attached to addendum 2.

Jon Harriman, P.E.
Town Engineer
Town of Cromwell, CT
ph: 860 632-3465
fx: 860 632-3477

From: Dominic Stella [<mailto:dominic.stella@sprung.com>]
Sent: Wednesday, November 7, 2018 8:41 AM
To: Harriman, Jon
Cc: Frank Price
Subject: Sprung Information

Dear Mr. Harriman,

Apologies for the e-mail mix-up.

I have attached the original drawing of your structure. Looks like the structure was delivered 11/19/2002 and has premium Salem Blue membrane. This membrane has a 20+ year life expectancy so you should be able to re-use the membrane when the structure is moved.

I have also copied Frank Price who heads our parts and service department. Frank will be in charge of supplying all the information and pricing to re-locate your structure.

He can be reached at 801-280-1555.

Frank: original W.O. # 07483

Please do not hesitate to contact me if you need any further assistance with your request.

Kindest Regards,

Dominic Stella | Business Development Manager | dominic.stella@sprung.com

SPRUNG STRUCTURES 5000 Tilghman Street, Suite 155, Allentown, PA 18104

1-800-528-9899 Toll Free | 1-610-391-9553 Office | 1-610-533-2655 Cell | www.sprung.com

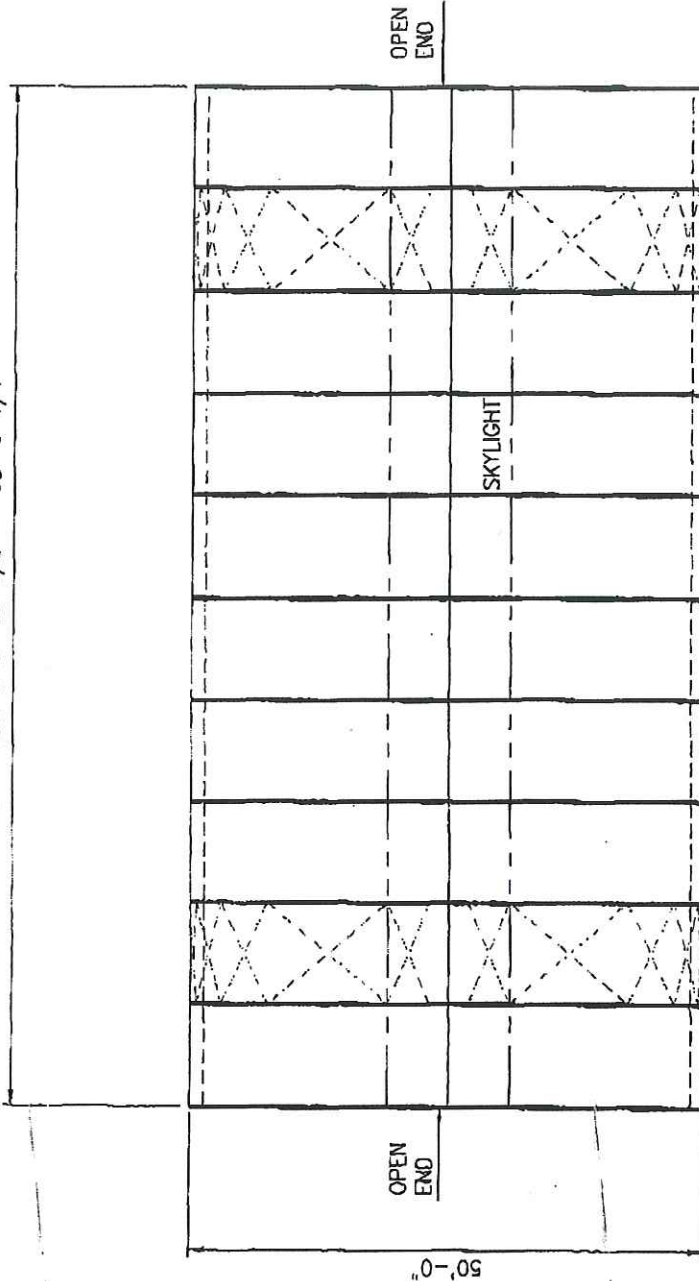


High Performance Building Solutions



[LinkedIn](#) | [YouTube](#) | [Facebook](#)

10 PANELS @ 9'-10 1/8" = 98'-5 1/4"



CABLE
BRACING

CONC. WALL DESIGNED
& CONSTRUCTED BY
OTHERS

CABLE
BRACING

PLAN VIEW
1/16"=1'-0"

DRAWING APPROVAL

Signature: *[Signature]*

Print Name: DOUGLAS MAZUR

Date: 10/30/02

Information of wind speed at site
a local building department:
ing Code

MPH, Exposure

**SPRING
INSTANT STRUCTURES**

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TOLL FREE: 1-800-528-9999

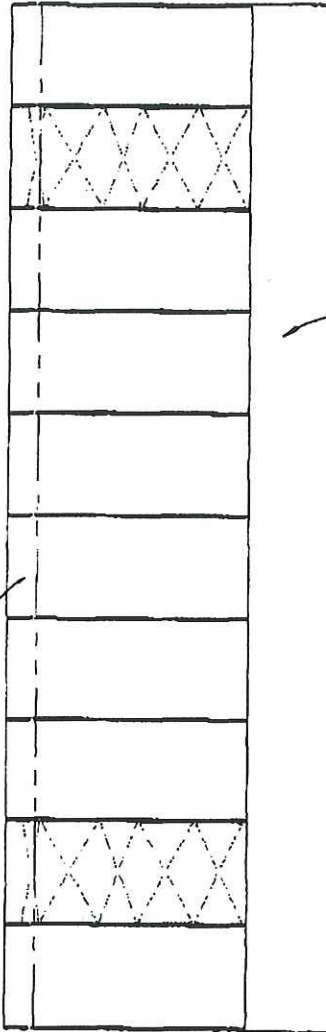
OR (803) 215-3371 www.spring.com

TOWN OF CROMWELL
SALT STORAGE
50.0' x 98.4'
STRUCTURE

DATE: 10/28/2002
SCALE: AS NOTED

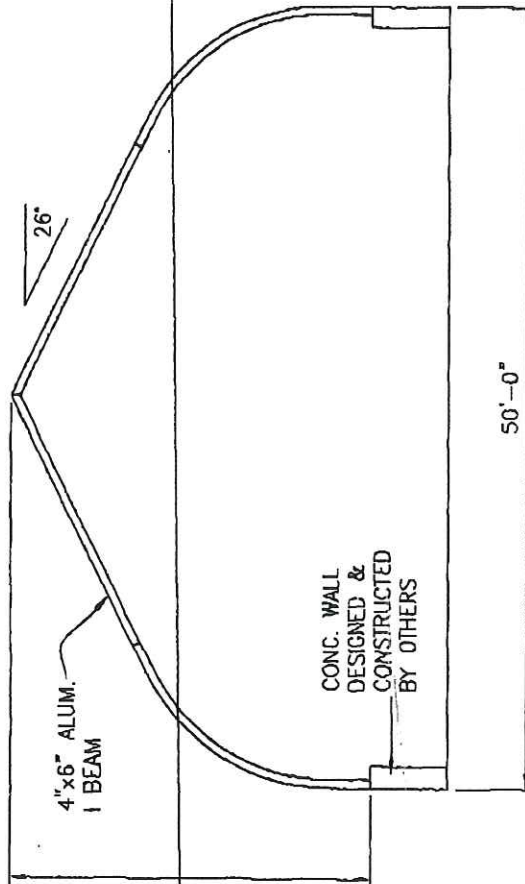
DRAWING #
F021168A

SKYLIGHT



CONC. WALL DESIGNED
& CONSTRUCTED BY
OTHERS

ELEVATION
1/16" = 1'-0"




CONC. WALL
DESIGNED &
CONSTRUCTED
BY OTHERS

50'-0"

CUSTOM FLAT END 50'-0" STRUCTURE
3/32" = 1'-0"



DRAWING APPROVAL	
Signature	<i>[Signature]</i>
Print Name	DAVID H. MARSH
Date	10/30/02
Confirmation of wind speed at site of the local building department: Siting Code <input type="checkbox"/> MPH, Exposure <input type="checkbox"/>	

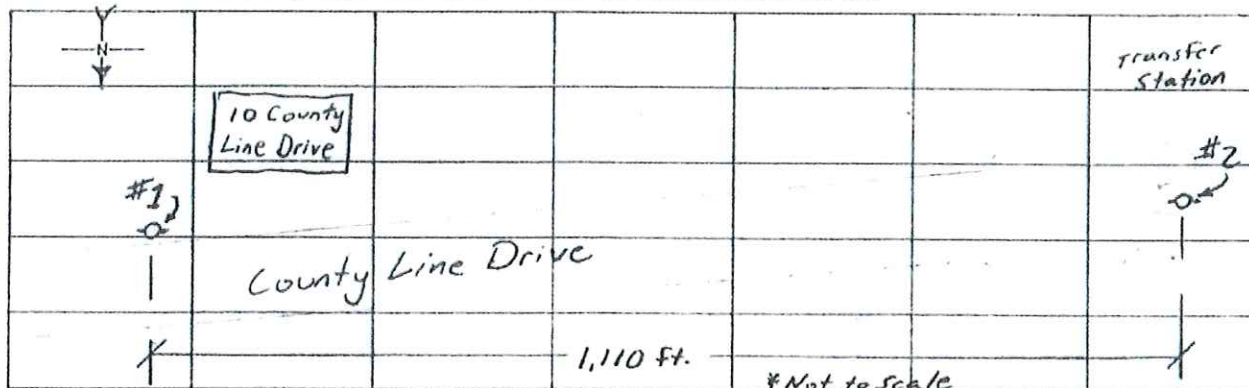
 SPRING INSTANT STRUCTURES <small>Manufacturers of Engineered Portable Structures TOLL FREE: 1-800-528-8858 OR (408) 245-3571 www.spring.com</small>	TOWN OF CROMWELL SALT STORAGE 50.0' x 98.4' STRUCTURE	
	DATE 10/28/2002	SCALE AS NOTED
DRAWING # F021168B		

FLOW TEST INFORMATION SHEET



1. Reason for Test: Bid Information ☐ Design Base ☐
Other _____
2. Location of Property Hanger - New England 10 County Line Dr., Cromwell, CT
(Address) (City) (State) (County)
3. Date & Time of Test: Date: 6-1-2012 Time: 8:20 (am) (pm)
4. Test Conducted by: Jay Morella President Central Systems, Inc.
Name Title Affiliation
5. Test Witnessed by: Joe Palmieri Foreman Cromwell Fire District
Name Title Affiliation
6. Source of Water Supply: Gravity ☐ Pump ☐ Other: _____
7. Name of Water District Cromwell Water Fire District _____
8. Is water supply provided with PRV STA's Yes ☐ No ☐
(If so what is PRV setting? _____ PSIG)

9. AREA MAP: (Draw Sketch showing property location; bounding streets and names, north arrow, hydrant locations and identification numbers, distances from hydrants to property elevations of hydrants and property floors or grade, all water mains and sizes and interconnection valves, etc.)



10. Flow Test Data

FLOW AT HYDR. NO.	STATIC AT HYDR. NO.	STATIC PSIG	RESIDUAL PSIG	FLOW GPM	OUTLET COEFFICIENT	ADJUSTED GPM
#2	#1	60	53	1,010	(Diffuser)	

11. Signed _____

Witness _____



Outlet Square and projecting into Barrel
Coef. 0.70



Outlet Square and Sharp
Coef. 0.80



Outlet Smooth and Rounded
Coef. 0.90

(See supplementary sheet for graph)

FLOW TEST INFORMATION SHEET



1. Reason for Test: Bid Information ☒ Design Data ☒

Other _____

2. Location of Property: 10 COUNTY LINE DRIVE CROMWELL CT 06416

3. Date & Time of Test: Date: 01/29/18 Time: 11:00 (am) (pm)

4. Test Conducted by: GARY CRANDALL TECHNICIAN AL FIRE PROTECTION

5. Test Witnessed by: Joseph A. Palmieri Foreman Cromwell Fire District water Division

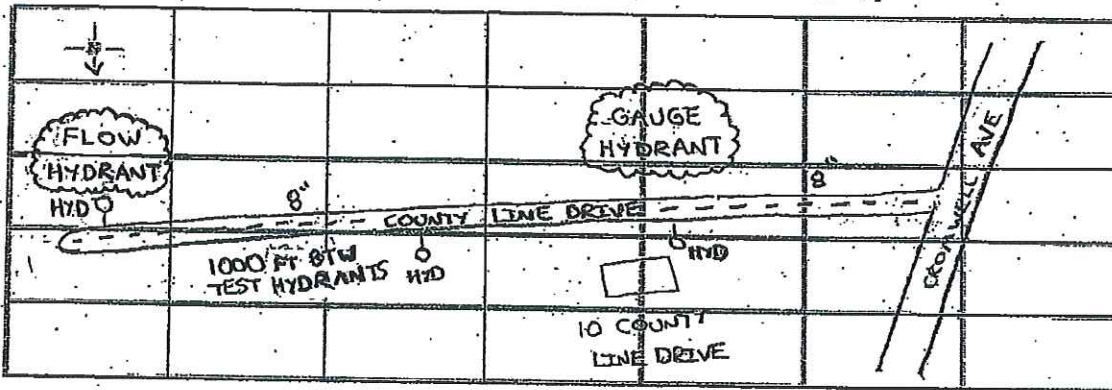
6. Source of Water Supply: Gravity ☒ Pump ☐ Other _____

7. Name of Water District: CROMWELL WATER DEPT Fire District CROMWELL FIRE DEPT

8. Is water supply provided with FRV STA's Yes ☐ No ☒

(If so what is FRV outlet setting? _____ PSIG)

9. Area Map: (Draw Sketch showing property location, bounding streets and maps, north arrow, hydrant locations and identification numbers, distances from hydrants to property elevations of hydrants and property floors or grade, all water mains and sizes and intersection valves, etc.)



10. Flow Test Data

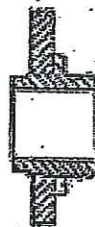
FLOW AT HYDR. NO.	STATIC AT HYDR. NO.	STATIC PSIG	RESIDUAL PSIG	FLOW GPM	OUTLET COEFFICIENT	ADJUSTED GPM
26 PILOT	FLOW HYDRANT	NA	NA	860 GPM	0.9	774 GPM
NA	GAUGE HYDRANT	62 PSI	59 PSI	NA	NA	NA

11. See reverse side for graph

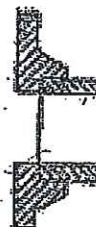
12. Signed: Joseph A. Palmieri

Witness: JOSEPH A. PALMIERI

Form No. 402
International Fire Marshals Association, Inc.
10000 Highway 20, Suite 4-220
Dallas, Texas 75244
© 1999, 2004, 2008



Test Square and Nozzle into Street Hydrant
0.50



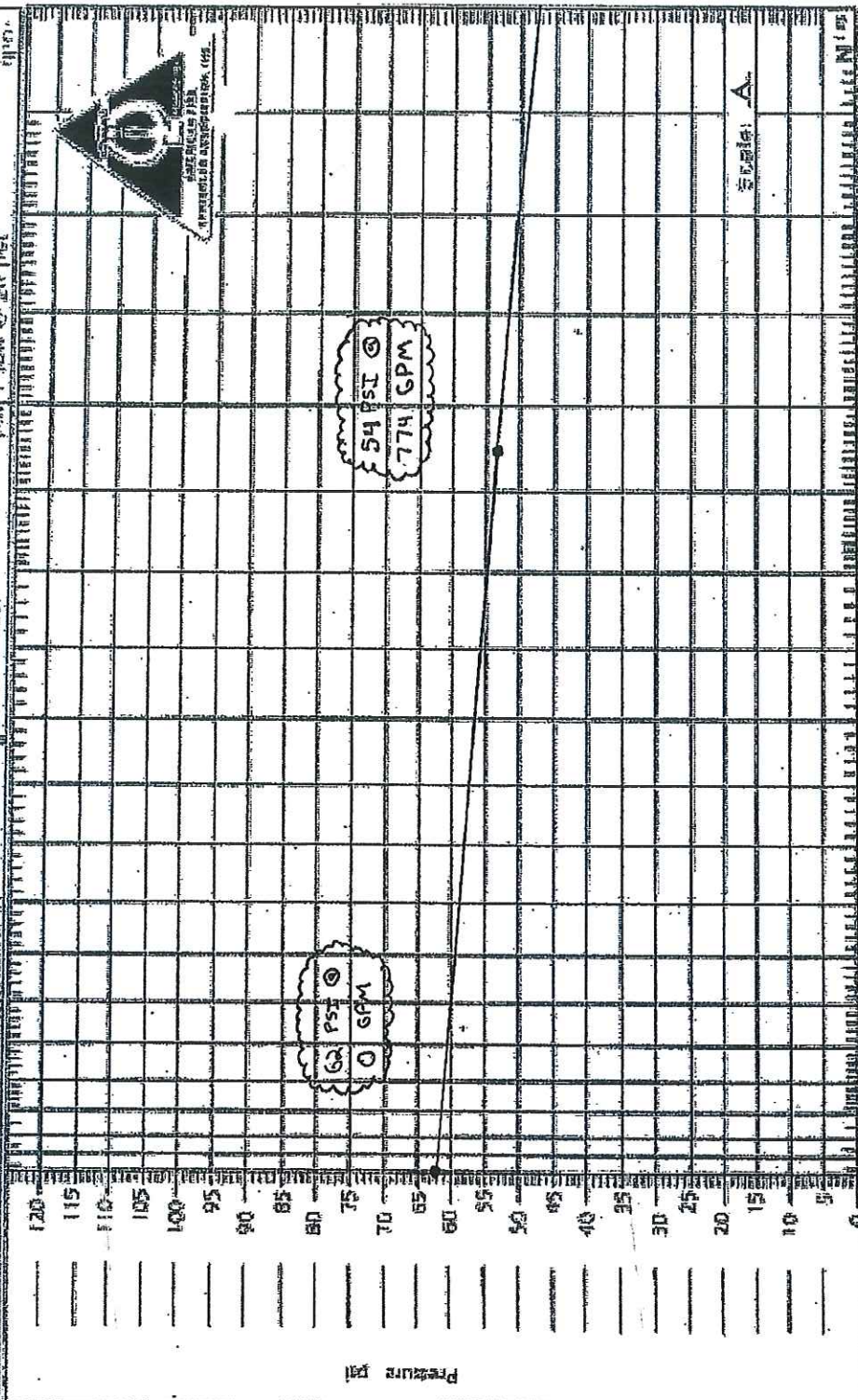
Test Square and Nozzle into Street Hydrant
0.50



Test Square and Nozzle into Street Hydrant
0.50

WATER FLOW TEST SUMMARY SHEET

Hydrant No.		Outlet I.D. inches	Pilot Press. psi	Flow gpm	Residual psi
1					
2					
3					
Date: 01/29/18 Time: 11:00AM Cont. No. Cont. Name: Address: 10 COUNTY LINE DRIVE CROMWELL, CT 06416					
TOTAL FLOW			Static Press. psi	Flow @ 2 ft psi	gpm



Scale A
Scale B
Scale C

1000
2000
3000
4000

0 500 1000 1500 2000 2500 3000 3500 4000

120 115 110 105 100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000

FORM 102-001

Joe U

LEONARD J. ASSARD, P.E.
CIVIL ENGINEER
78 THOMSON ROAD
BETHLEHEM, CT 06751

203/266-7175

RECEIVED
FEB 26 2018

February 19, 2018

Milone & MacBroom
Attn: Mr. Joseph Urso
99 Realty Drive
Cheshire, CT 06410

MILONE AND MACBROOM

re: Line Flows

Dear Mr. Urso,

As requested a hydrant flow test was performed on the last hydrant on Country Squire Drive in Cromwell, CT on February 15, 2018.

The flow at the last hydrant was 900 gpm. Static and residual pressures were observed at the next to the last hydrant on Country Squire Drive. The static pressure was 46 psi and the residual pressure was 40 psi. At the conclusion of the test the static pressure returned to 46 psi.

Using this data a Fire Flow of approximately 1987 gpm would be realized at a residual pressure of 20 psi.

If you have any questions please feel free to contact me. If we can be of other service please let me know.

Best regards,



Leonard J. Assard, P.E.

HYDRANT FLOW TEST REPORT

Location: County Line Drive, Cromwell, CT **Date:** 5/29/2018

Test made by: Jeff Corcoran **Time:** 3:05 PM

Representative of: Wolverine Fire Protection Co.

Witness: Joseph Palmieri - Cromwell Fire District

Purpose of Test: To determine the water supply for a future building project west of the transfer station.

Consumption rate during test: 1300 gpm

If pumps affect test, indicate pumps operating: N/A

Flow From Riser	A_1	A_2	A_3	
<i>Nozzle Size</i>	<u>2-1/2"</u>	<u>2-1/2"</u>		
<i>Pitot Reading</i>	<u>15</u>	<u>15</u>		
<i>Discharge Coefficient</i>	<u>0.9</u>	<u>0.9</u>		
<i>GPM</i>	<u>650</u>	<u>650</u>		<u>Total GPM</u>
				<u>1300</u>

Static B 61 psi **Residual B** 39 psi

Remarks Both 2½" outlets were flowed from a single hydrant located in the Cromwell Transfer Station. Static and residual readings were taken from the hydrant in front of Brothers Autobody.

Location Map:

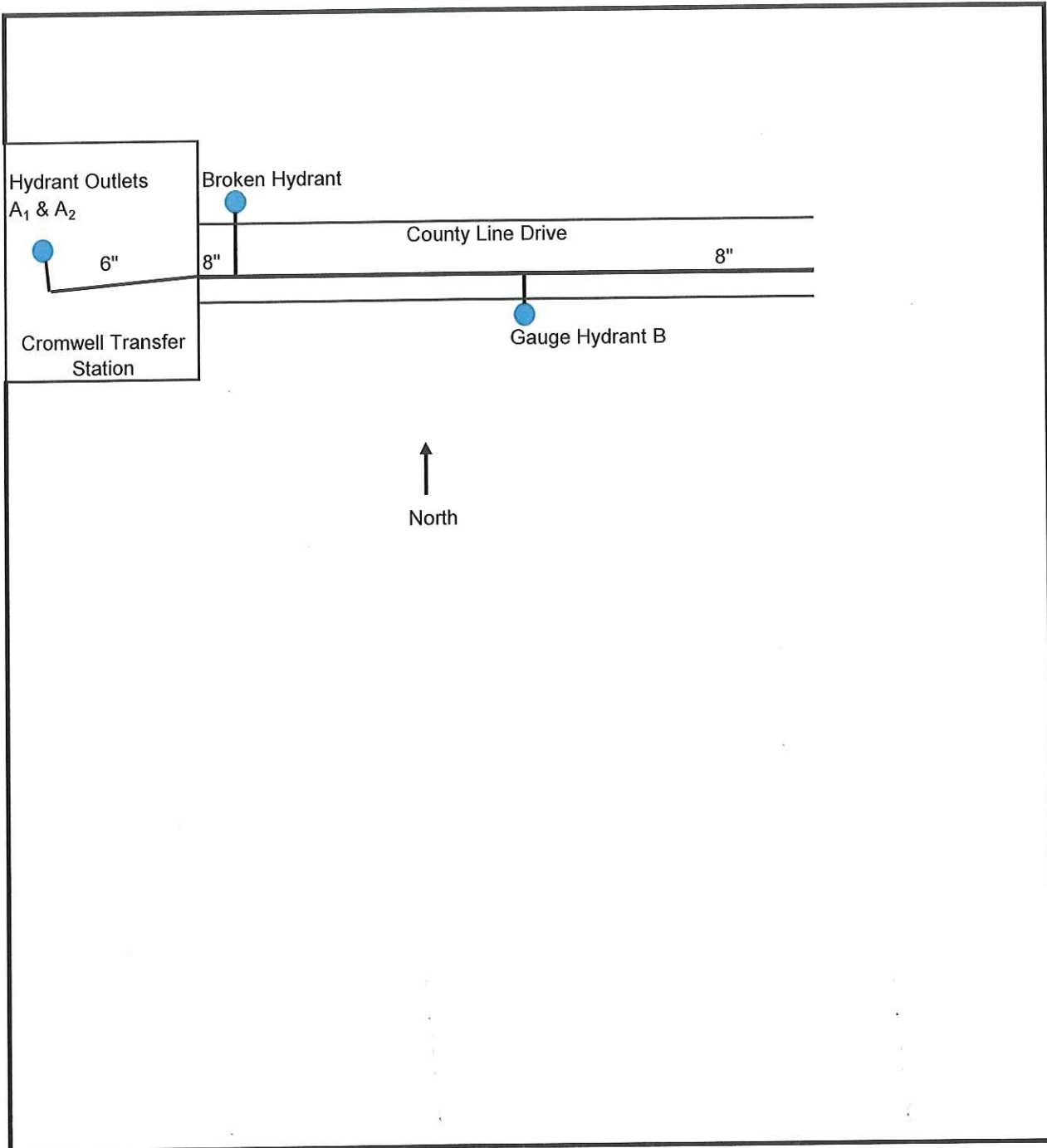
Show line sizes and distance to next cross connected line. Show valves and hydrant branch size. Indicate north.
Show flowing hydrants - Label A₁, A₂, A₃. Show location of static and residual - Label B.

Indicate B

Hydrant X

Sprinkler

Other





Hydraulic Graph

N 1.85

